

IN THE CLAIMS:

Please amend claims 1, 4, 6, 7-10, 13, 14 and 21 as indicated in the following.

Claims Listing

1. (Currently Amended) A method comprising ~~the steps of~~:
when in a first mode of operation, utilizing a first output to provide a first data lane
enable for facilitating access of a portion of a first memory storage location
associated with a first memory address; and
when in a second mode of operation, utilizing the first output to provide an address bit of
a second memory address for facilitating designation of a second memory storage
location.
2. (Original) The method of claim 1 wherein:
the first data lane enable facilitates accessing a byte of data associated with the first
memory address when in the first mode of operation; and
the second memory address accesses a byte wide memory.
3. (Original) The method of claim 1 wherein:
the first data lane enable facilitates accessing a byte of data associated with the first
memory address when in the first mode of operation; and
the second memory address accesses a word wide memory.
4. (Currently Amended) The method of claim 3 wherein the number of bits associated
with the word wide memory is greater than eight[[8]].
5. (Previously Presented) The method of claim 1 wherein:
the first output is the first output of a first device; and
the first and second modes of operation utilize the first output to access a second device
external the first device.
6. (Currently Amended) The method of claim 5 further comprising ~~the step of~~:

when in a third mode of operation, utilizing the first output to provide information about a memory access internal to the device that includes the first output.

7. (Currently Amended) ~~The method of claim 1, wherein:~~ A method comprising:
when in a first mode of operation, utilizing a first output to provide a first data lane
enable for facilitating access of a portion of a first memory storage location
associated with a first memory address; and
when in a second mode of operation, utilizing the first output to provide an address bit of
a second memory address for facilitating designation of a second memory storage
location, wherein the address bit is an additional address bit used to extend an
address range when a memory having a width less than a word width is being
accessed.

8. (Currently Amended) The method of claim 1, further comprising ~~the step of:~~
determining a mode of operation to be one of the first mode of operation and the second
mode of operation.

9. (Currently Amended) The method of claim 8, wherein:
~~the step of determining the mode of operation is based upon a register value associated~~
with a specific chip select.

10. (Original) The method of claim 1 further comprising:
when in the first mode of operation, utilizing a second output to provide an address bit of
the first memory address for facilitating designation of the first memory storage
location; and
when in the second mode of operation, utilizing the second output to provide a second
data lane enable for facilitating access of a portion of the second memory storage
location associated with the second memory address.

11. (Currently Amended) A method of providing data to a set of pins of a device, the
method comprising ~~the steps of:~~
during a first mode of operation, multiplexing a first set of data onto the set of pins to

allow the set of pins to provide data representing two least significant bits of a first address, a most significant bit of the first address, and a lane enable;
during a second mode of operation, multiplexing a second set of data onto the set of pins to allow the set of pins to provide data representing one least significant bit of a second address, a most significant bit of the second address, and two lane enables;
and
during a third mode of operation, multiplexing a third set of data onto the set of pins to allow the set of pins to provide four lane enables.

12. (Original) The method of claim 11, wherein the first, second and third sets of data facilitate an external memory access, wherein the external memory access is external relative to the device.

13. (Currently Amended) The method of claim 12, further comprising ~~the step of:~~
during a fourth mode of operation multiplexing a fourth set of data onto the set of pins to allow the set of pins to provide information relating to an internal memory access.

14. (Currently Amended) The method of claim 11 further comprising ~~the step of:~~
determining the mode of operation is based upon a chip select indicator.

15. (Previously Presented) An apparatus comprising:
a set of address nodes to provide address data for address bit locations A(n) through A(2),
where A(n) represents a most significant bit for at least a first mode of operation;
a first output node to provide one of an address data for address bit location A(1) and a data lane enable signal based upon a mode of operation;
a second output node to provide one of an address data for address bit location A(0) and a data lane enable signal based upon the mode of operation; and
a third output node to provide one of an address data for address bit location A(n+1) and a data lane enable signal based upon the mode of operation.

16. (Original) An apparatus comprising:
a first register having an output to indicate one of a first mode of operation and a second

mode of operation;
an address control portion having an input coupled to the output of the first register, and
an output to indicate a value of an address bit when in the first mode of operation;
a first data lane enable control portion having an input coupled to the output of the first
register, and an output to indicate a first data lane enable value when in the second
mode of operation; and
an output pin coupled to the output of the address control portion and the output of the
first data lane enable control portion.

17. (Previously Presented) The apparatus of claim 16 further comprising a multiplexor having a control input coupled to the output of the first register, a first data input coupled to the address control pin, a second data input coupled to the first data lane enable, and an output coupled to the output pin.

18. (Original) The apparatus of claim 16, wherein the first register is associated with one of a plurality of chip selects.

19. (Original) A system comprising:
a processing module coupled to a set of outputs; and
memory operably coupled to the processing module, wherein the memory stores
operational instructions that cause the processing module to:
utilize a first output to provide a first data lane enable to facilitate accessing of a
portion of a first memory storage location associated with a first memory
address when in a first mode of operation; and
utilize the first output to provide an address bit of a second memory address to
facilitate designation of a second memory storage location when in a
second mode of operation.

20. (Original) The system of claim 19 further comprising:
operational instructions that cause the processing module to:
when in a third mode of operation, utilize the first output to provide information
about a memory access internal to the device.

21. (Currently Amended) A method of operating a microcomputer[[.]] comprising the steps of:

when the microcomputer is in a first mode of operation, utilizing a first output of a microcomputer to provide a first data lane enable for facilitating access of a portion of a first memory storage location associated with a first memory address; and

when the microcomputer is in a second mode of operation, utilizing the first output of the microcomputer to provide an address bit of a second memory address for facilitating designation of a second memory storage location.